
Proxy*Server*

Client Setup

User Guide

Client Setup User Guide

82080700 Revision A

ProxyServer

This publication may not be reproduced, in whole or in part, without prior expressed written permission from Multi-Tech Systems, Inc. All rights reserved.

Copyright © 1998, by Multi-Tech Systems, Inc.

Multi-Tech Systems, Inc. makes no representations or warranties with respect to the contents hereof and specifically disclaims any implied warranties of merchantability or fitness for any particular purpose. Furthermore, Multi-Tech Systems, Inc. reserves the right to revise this publication and to make changes from time to time in the content hereof without obligation of Multi-Tech Systems, Inc. to notify any person or organization of such revisions or changes.

Record of Revisions

Revision	Description
----------	-------------

A (2/27/98)	Manual released. All pages at rev A.
-----------------------	--------------------------------------

Patents

This Product is covered by one or more of the following U.S. Patent Numbers: **5.301.274; 5.309.562; 5.355.365; 5.355.653; 5.452.289; 5.453.986.** Other Patents Pending.

TRADEMARK

Trademark of Multi-Tech Systems, Inc. is the Multi-Tech logo. Windows is a registered trademark of Microsoft.

Multi-Tech Systems, Inc.

2205 Woodale Drive

Mounds View, Minnesota 55112

(612) 785-3500 or (800) 328-9717

Fax 612-785-9874

Tech Support (800) 972-2439

BBS (612) 785-3702 or (800) 392-2432

Internet Address: <http://www.multitech.com>

Fax-Back (612) 717-5888

Contents

Introduction	4
ProxyServer	4
PC	4
Checklist	4
Configuring Windows 95	5
Installing TCP/IP	11

Introduction

Welcome to Multi-Tech's family of Proxy Servers. The information provided in this User Guide enables multiple users to configure their Windows® 95 PCs to access the Internet through a Proxy-Server.

ProxyServer

Prior to adding the ProxyServer to your network, your network administrator had to consider whether the ProxyServer would (a) automatically assign Internet (IP) addresses or (b) require that they be assigned manually to each client PC. Also, the administrator assigned an IP address to the ProxyServer's Ethernet port, assigned WAN links, user names and passwords, phone numbers, and may or may not have set up the ProxyServer to operate as a DHCP server (to automatically assign IP addresses to the client PCs).

PC

To access the ProxyServer, your PC must have communications capability (hardware, such as a network card, and any necessary software).

If the ProxyServer does not automatically assign an IP address to each PC, you will have to obtain it from your network administrator. You will also need the IP address for the ProxyServer (the Gateway address), the "domain name" for your organization, and your user name on the network. You may also need the IP Address of your organization's Domain Name Server (DNS). All these items are needed so your PC can identify the ProxyServer as its gateway and properly set up your network security.

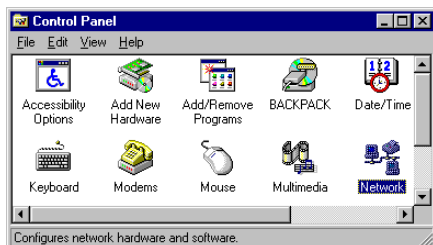
Checklist

A checklist for recording all the pertinent information required for your PC connection to the ProxyServer is provided following the TCP/IP Properties window for specifying an IP address.

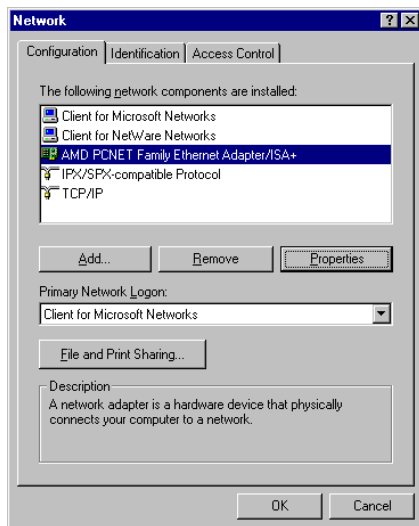
Configuring Windows 95

Perform the following steps to set up your PC:

- 1 **Check that an Ethernet Adapter is installed.** From the Windows desktop, open the **Control Panel**, then double-click on the **Network** icon.

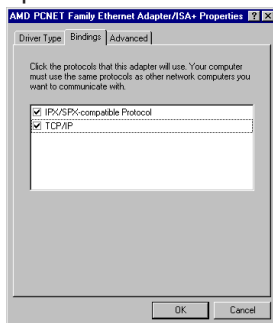


The Network Configuration window appears showing all the components (i.e., Clients, Adapters, Protocols, and any Services) installed on your PC.



- 2 If you find a network adapter (after the list of Clients) as above, proceed to step 3; however, if no adapter is listed, install one before proceeding to step 3.

- 3 Having verified the presence of a network adapter, check the installed protocols. If you find TCP/IP listed, proceed to step 4; otherwise, refer to **Installing TCP/IP**, at the end of this user guide.
- 4 Check for binding between the adapter and TCP/IP. On the Network Configuration window, click on the adapter to select it, then click on Properties to display the Adapter Properties window.



- 5 Click on the **Bindings** tab, then if necessary click on the box to the left of TCP/IP so this entry is checked and enclosed in a dotted box as shown above.

Note: if any other protocols in the list are checked, your computer will accept messages using those protocols.

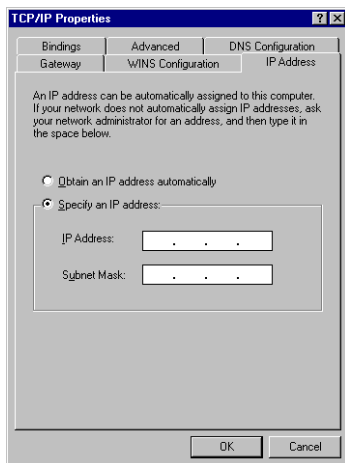
Click on **OK** to return to the Network Configuration window.

- 6 Select **TCP/IP** on the Network Configuration window, then click on the **Properties** button to open the **TCP/IP Properties** window.



- 7 If your ProxyServer was set up with a DHCP Server option active, your IP address is issued automatically. If your network administrator did NOT activate DHCP Services on the ProxyServer, you will have to assign your IP address manually. Verify the ProxyServer/DHCP status with your network administrator, then proceed to step 8 or step 9.
- 8 If DHCP Services are active on the ProxyServer (the default) , merely check to ensure that the circle to the left of **Obtain an IP address automatically** has a dark center. You are done; go to step 16 and attempt to open an Internet session.
- 9 If DHCP Services are NOT active on the ProxyServer, you will have to manually enter your IP address. On the TCP/IP Properties window, select Specify an IP address. Click the circle to the left of **Specify An IP Address** so it now has a dark center, then type your PC's assigned IP address in the space provided.

Backspace through the entire text box to remove the default IP address (if any), or put the cursor in the area to the left of the first period; double-click if there are already some numbers there, or (if blank) begin typing new address. If a group has fewer than 3 digits, press the space bar to move to the next group. When done, check that the IP address matches *exactly* the IP address you were given for your PC.



Following is a checklist for recording all the information you may need:

IP Address (PC) _____ . _____ . _____

IP Address (ProxyServer) _____ . _____ . _____

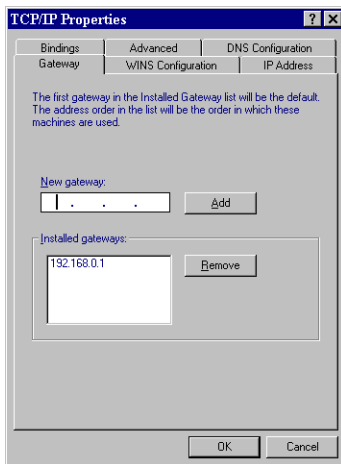
Host (user name) _____

Domain _____

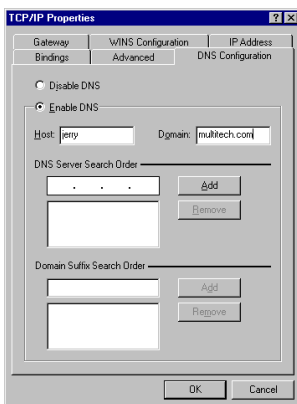
DNS Server Address _____ . _____ . _____

Network Adapter Data _____
(Manufacturer/Model Number)

- 10 Check the Gateway. Click on the **Gateway** tab, then type the IP address of the ProxyServer's Ethernet port in the **New gateway** box and click on **Add**.



- 11 Exit the Add New Gateway process. Click on **OK**.
- 12 Click on the **DNS Configuration** tab. If the circle to the left of **Enable DNS** does NOT have a dark center, click on it.



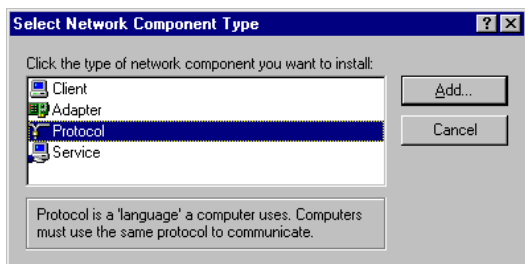
- 13 Enter the Host and Domain names. Type your user name in the **Host** box, then type your organization's name with one of the following extensions: .com, .edu, .gov, .org, .mil, or .net) in the **Domain** box.
- 14 Enter the DNS address. In the **DNS Server Search Order** box, type the address of your LAN's DNS server (provided by your network administrator), then click on **Add**. Your network may have more than one DNS server, allowing you to use a secondary DNS server if the primary DNS server is down. (The **FIRST** server in the list is the first one searched, and you can "drag and drop" the items in the list, if necessary, until the primary DNS server is listed first.) When done, click on **OK**, twice to return to the Control Panel.
- 15 Reboot the PC for changes to take effect.
- 16 Attempt to open an Internet session by double-clicking on your browser's icon, or try to FTP a file. Since the ProxyServer operates transparently, do not enable any special proxy settings on your IP applications (i.e., your browser, Telnet, or FTP); set up each of them for "No Proxy."
- 17 To further validate your connection to the ProxyServer, "Ping" the IP address of the ProxyServer.

Installing TCP/IP

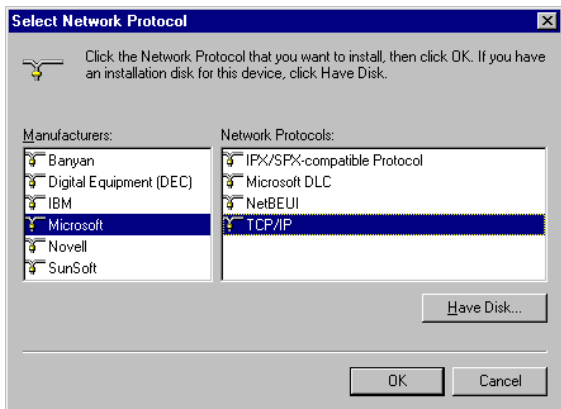
If TCP/IP is not already installed, perform the following steps:

Note: For this procedure you may need your Windows 95 install floppy disks or CD ROM.

- 1 While the Network **Configuration** dialog box is open, click on the **Add** button to open the Select Network Component Type window with a list of options.



- 2 Open the **protocol options** window. Double-click on the **Protocol** option. The Select Network Protocol window will appear with protocol options.



- 3 Select the Manufacturer of your protocol. Click on the Manufacturer option on the left side of the window (Microsoft in the example) to highlight it. A list of available options will appear at the right side of the window.
- 4 Select your Network Protocol. Click on the TCP/IP option at the right side of the window.
- 5 Exit the add option. Click on the **OK** button.
- 6 If necessary (i.e., the operating system does not find the necessary files on the hard drive), click on the **Have Disk** button, then follow the instructions provided onscreen.
- 7 Reboot your PC for changes to take effect.
- 8 Open the Control Panel and double-click on the Network icon to return to the Network Configuration window, then go to step 4 of the **Configuring Windows 95** procedure and check for binding between the network adapter and TCP/IP.

